B6hTh0"5976506O

FIG. 1

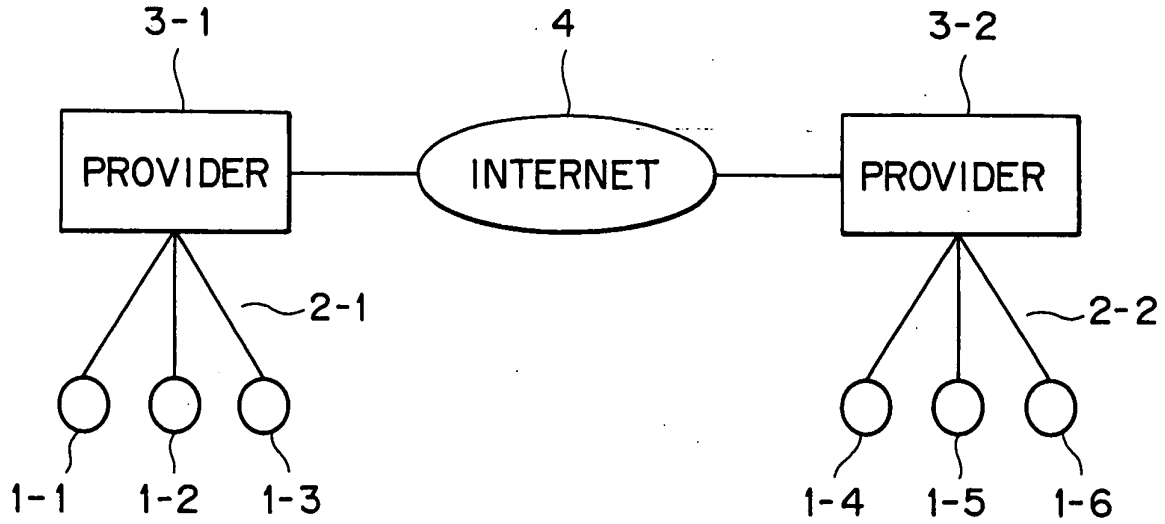


FIG. 2

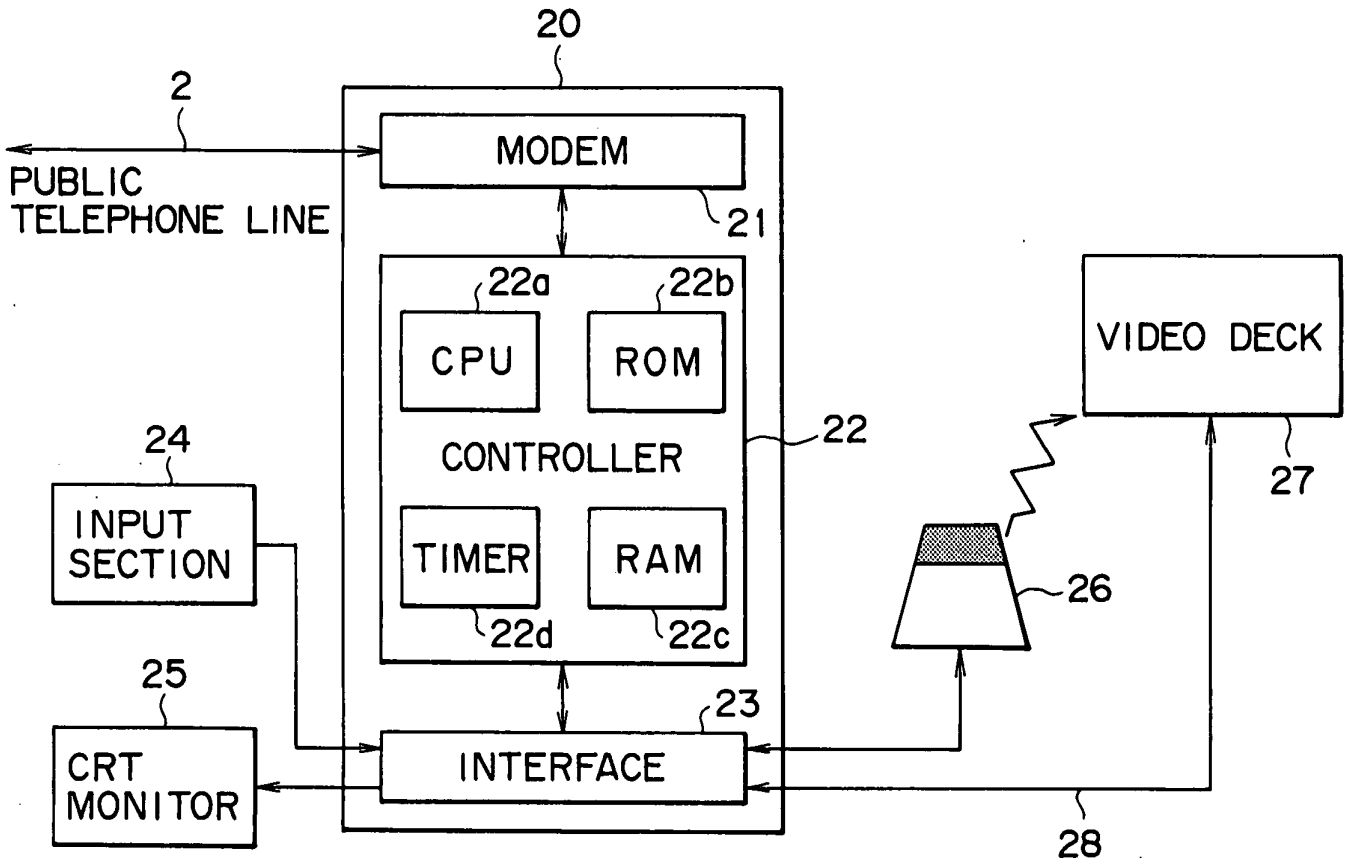

20
2
PUBLIC
TELEPHONE LINE
MODEM
21
22a
22b
CPU
ROM
CONTROLLER
22
TIMER
RAM
22d
22c
24
INPUT
SECTION
25
CRT
MONITOR
23
INTERFACE
VIDEO DECK
27
26
28

FIG. 3

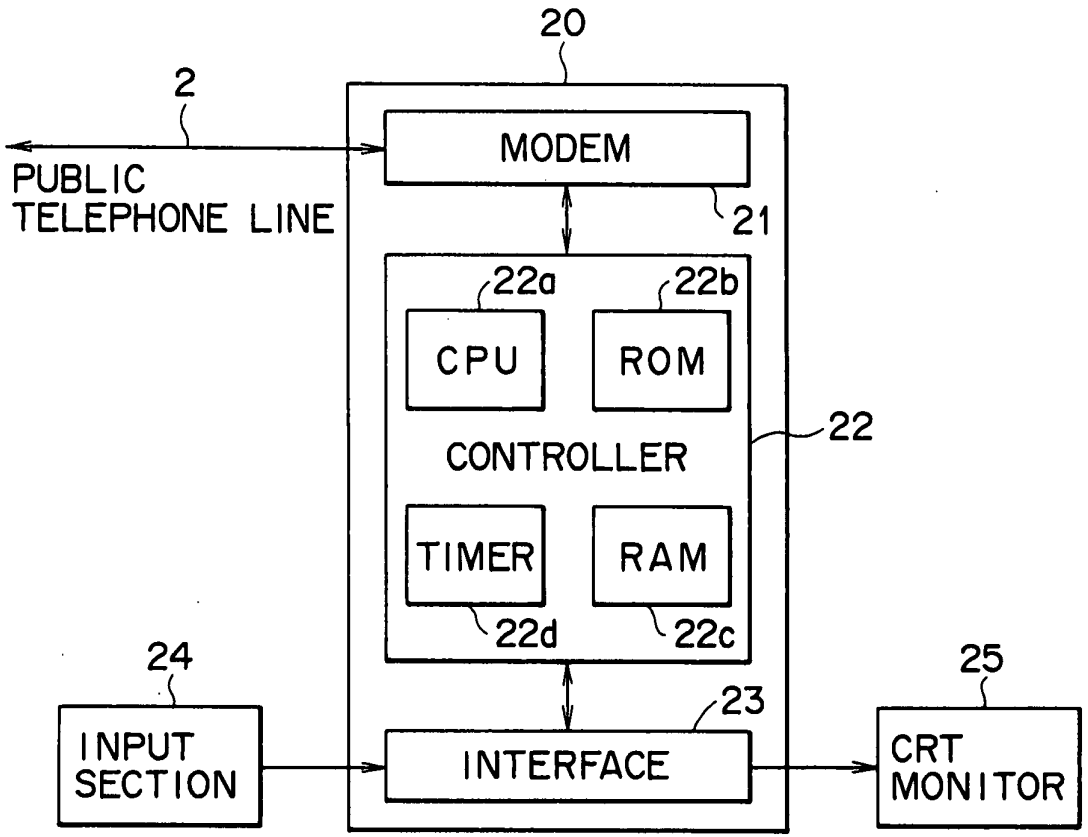

20
2
MODEM
PUBLIC
TELEPHONE LINE
21
22a
22b
CPU
ROM
22
CONTROLLER
TIMER
RAM
22d
22c
24
25
23
INPUT
SECTION
INTERFACE
CRT
MONITOR

FIG. 4

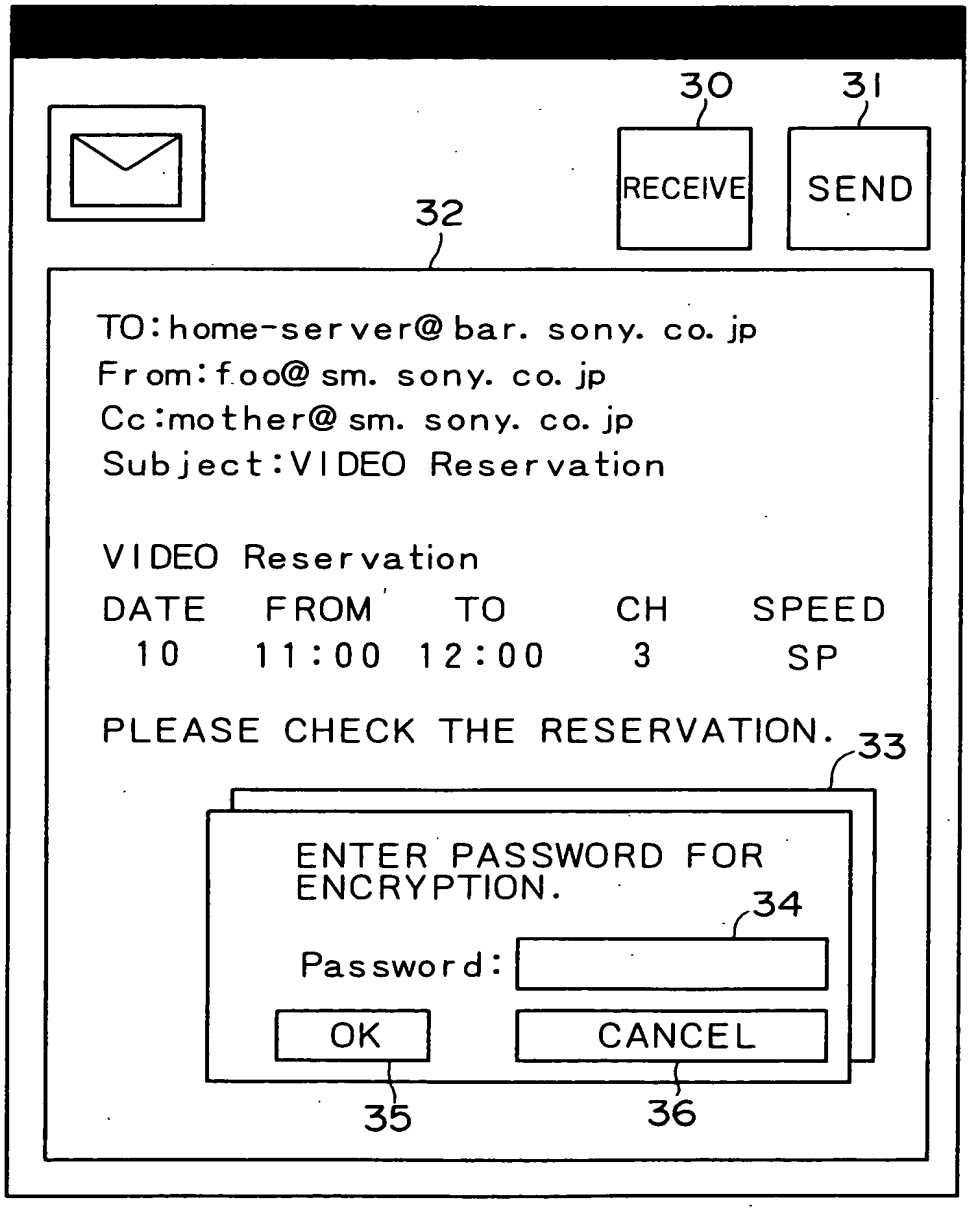
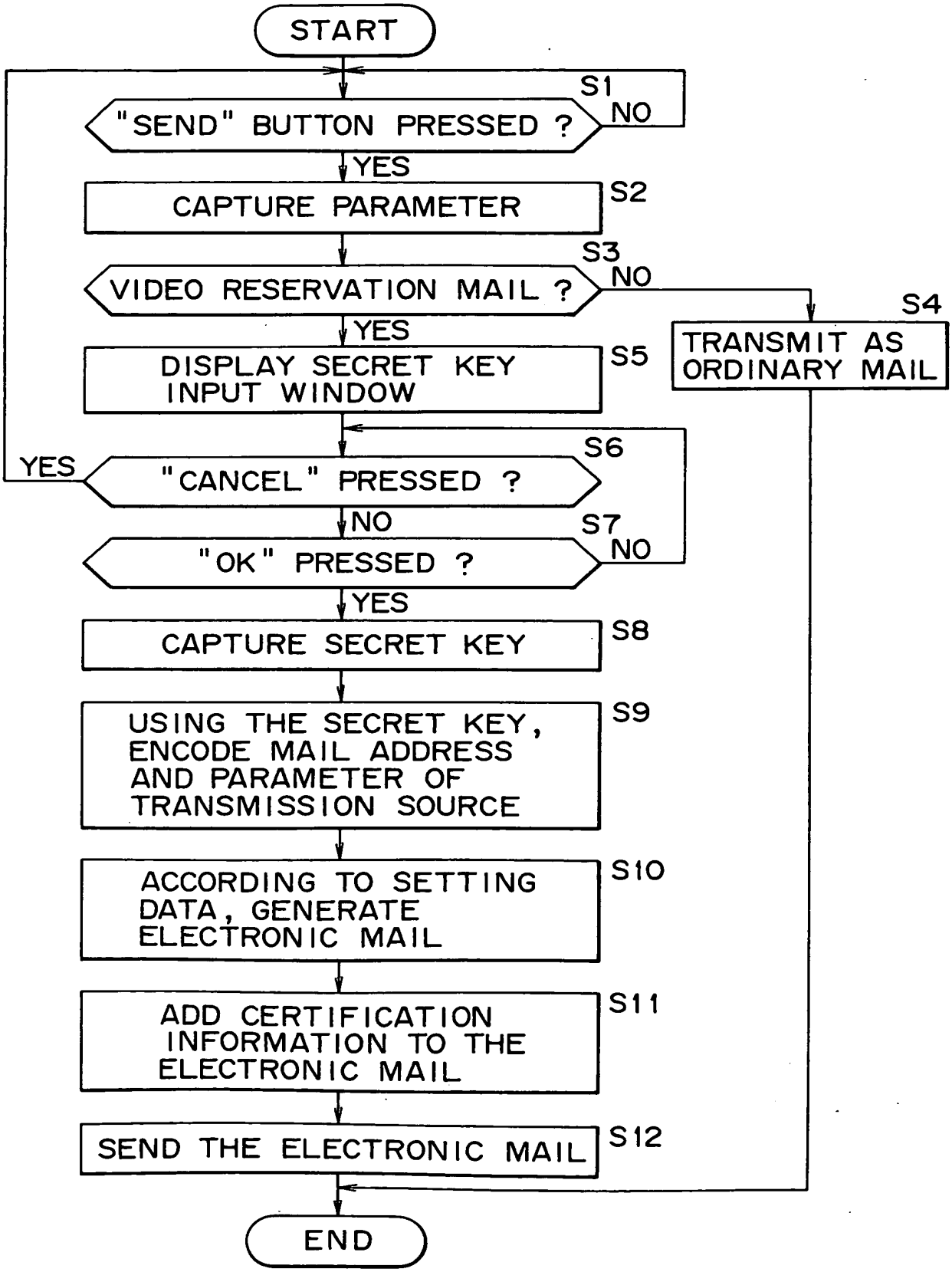

30
31
RECEIVE
SEND
32
TO:home-server@bar.sony.co.jp
From:foo@sm.sony.co.jp
Cc:mother@sm.sony.co.jp
Subject:VIDEO Reservation
VIDEO Reservation
DATE FROM TO CH SPEED
10 11:00 12:00 3 SP
PLEASE CHECK THE RESERVATION.
33
ENTER PASSWORD FOR ENCRYPTION.
34
Password:
OK
CANCEL
35
36

FIG. 5



8694104 "5956060

0 0 5 5 9 6 5 - 0 4 1 4 0 8

FIG. 6

TO:home-server @ bar. sony. co. jp
From:foo@ sm. sony. co. jp
Cc:mother@ sm. sony. co. jp
Subject:VIDEO Reservation

VIDEO Reservation

DATE	FROM	TO	CH	SPEED
10	11:00	12:00	3	SP

PLEASE CHECK THE RESERVATION

EncriptedDATA-First
ASASJKDKSDSIjjdsdjsuu^&%%!#@#@jasdauuihmkklsakdo
qwqeweipodasdiaidaiduckzxjzx&&*^%^!@E#JHBCJCHXZC

FIG. 7A

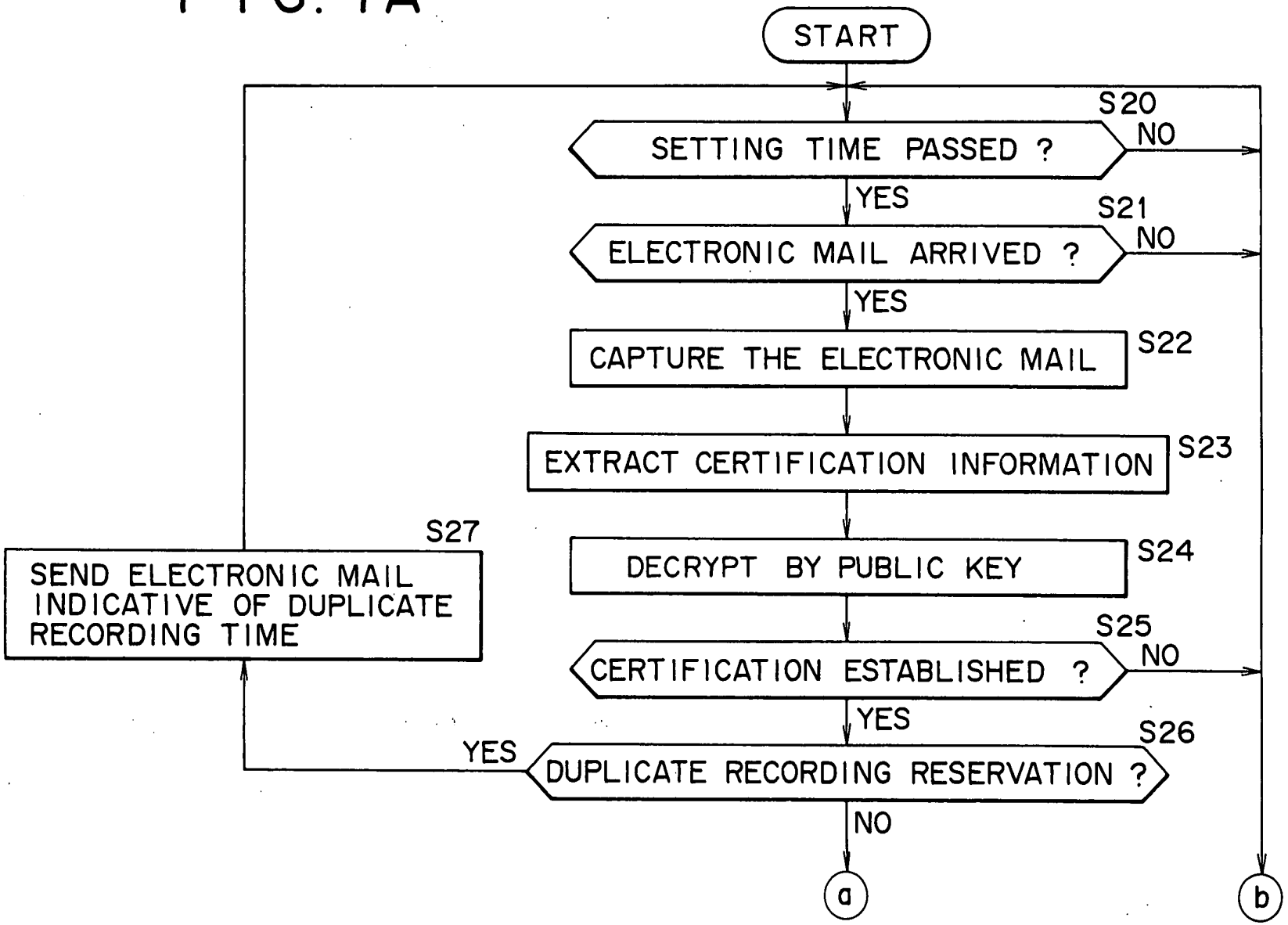

START
S20
SETTING TIME PASSED ?
NO
YES
S21
ELECTRONIC MAIL ARRIVED ?
NO
YES
CAPTURE THE ELECTRONIC MAIL
S22
EXTRACT CERTIFICATION INFORMATION
S23
DECRYPT BY PUBLIC KEY
S24
S25
CERTIFICATION ESTABLISHED ?
NO
YES
S26
YES
DUPLICATE RECORDING RESERVATION ?
NO
S27
SEND ELECTRONIC MAIL INDICATIVE OF DUPLICATE RECORDING TIME
a
b

FIG. 7B

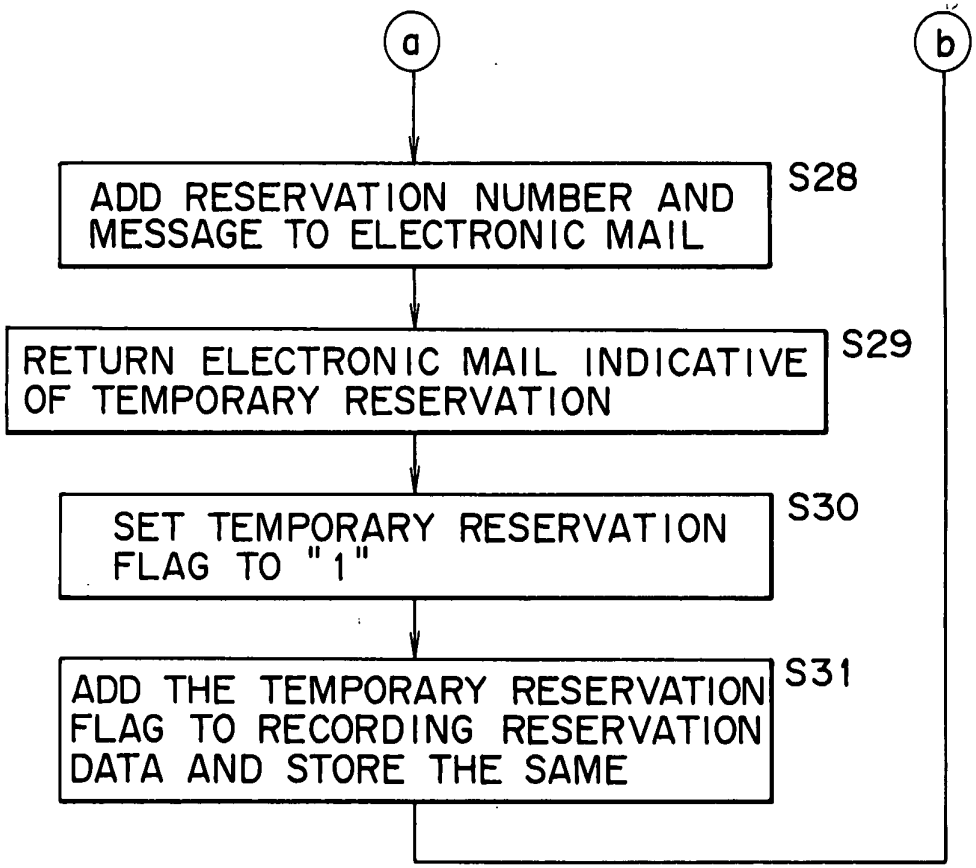


FIG. 7

FIG. 7A

FIG. 7B

0054f4d0-5a26-4e5b-9e8b-f2c5e5e6e5e8

FIG. 8

TO:foo@sm.sony.co.jp
From:home-server@bar.sony.co.jp
Subject:VIDEO Reservation

VIDEO Reservation

DATE	FROM	TO	CH	SPEED
10	11:00	12:00	3	SP

RESERVATION FAILED BECAUSE RESERVATION DATA SENT AS ABOVE PARTIALLY OVERLAP WITH DATA OF RESERVATION NUMBER 1 IN RECORDING TIME.

EncriptedDATA-First

ASASJKDKSDSIjjdsdjsuu^&%%!#@#@jasdauuihmkklsakdo
qwqeweipodasdiaidaiduckzxjzx&&*^%^!@E#JHBCJCHXZC

FIG. 9

TO:foo@sm.sony.co.jp

From:home-server@bar.sony.co.jp

Subject:VIDEO Reservation

ACCEPTANCE NUMBER 1 (TEMPORARY RESERVATION)

VIDEO Reservation

DATE	FROM	TO	CH	SPEED
10	11:00	12:00	3	SP

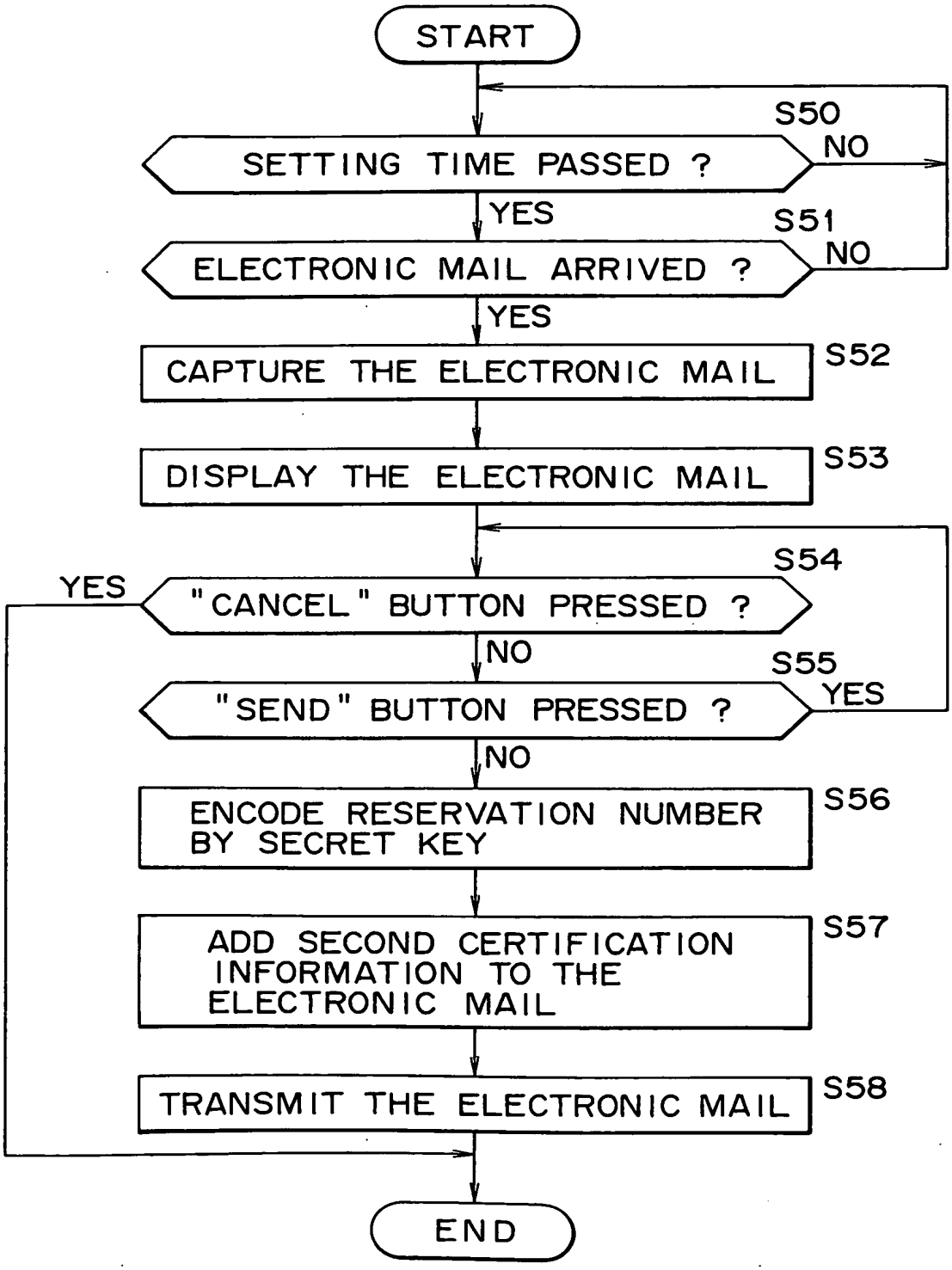
TEMPORARY RESERVATION MADE AS ABOVE.
CHECK THE CONTENT AND RETURN FOR FIXED RESERVATION.

EncriptedDATA-First

ASASJKDKSDSIjjdsdjsuu^&%%!#@#@jasdauuihmkklsakdo
qwqeweipodasdiaidaiduckzxjzx&&^^%^I@E#JHBCJCHXZC

0950-0950-0950

FIG. 10



EP 0 954 156 A2

0950565-041598

FIG. 11

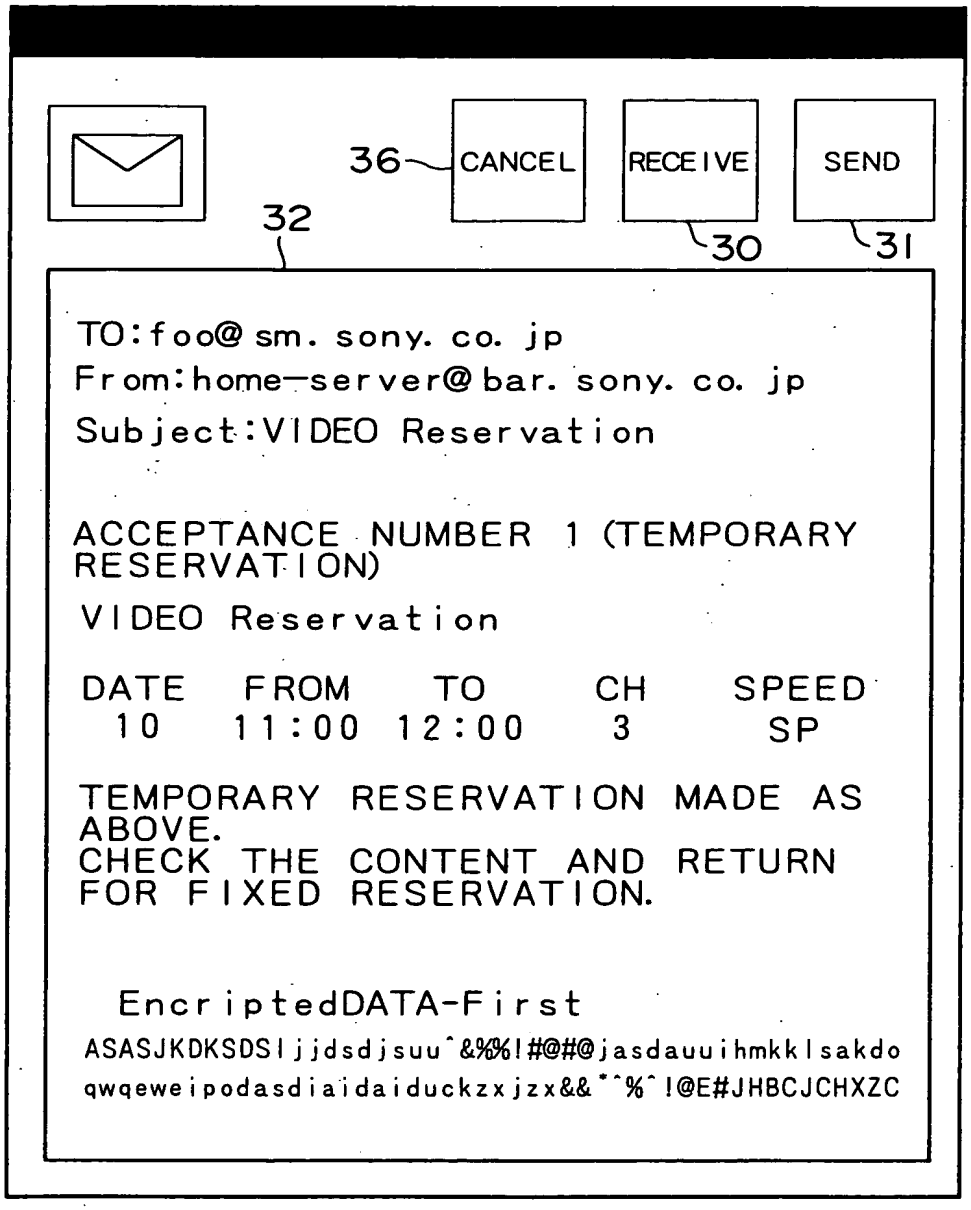


FIG. 12

TO:home-server@bar.sony.co.jp
From:foo@sm.sony.co.jp
Subject:VIDEO Reservation

RESERVATION NUMBER 1 (TEMPORARY RESERVATION)
VIDEO Reservation

DATE	FROM	TO	CH	SPEED
10	11:00	12:00	3	SP

TEMPORARY RESERVATION MADE AS ABOVE.
CHECK THE CONTENT AND RETURN FOR FIXED RESERVATION.

EncriptedDATA-First

ASASJKDKSDSIjjdsdjsuu^&%%!#@#@jasdauuihmkkIsakdo
qwqeweipodasdiaidaiduckzxjzx&&*^%^!@E#JHBCJCHXZC

EncriptedDATA-Second

idoapsdauiuwe^&^(&*SADDSADA&*DAS)D)(*ADLLKASLDApp{}[]
[=07897$^%^%BMNBNHHxxazxtbddaGHDSAuduygaddh
asdadaudyasuydasdyaduayadyaXTYUZXTqwdvvansbdvXUY

0050565-045450

86hTh0" 59265060

FIG. 13A

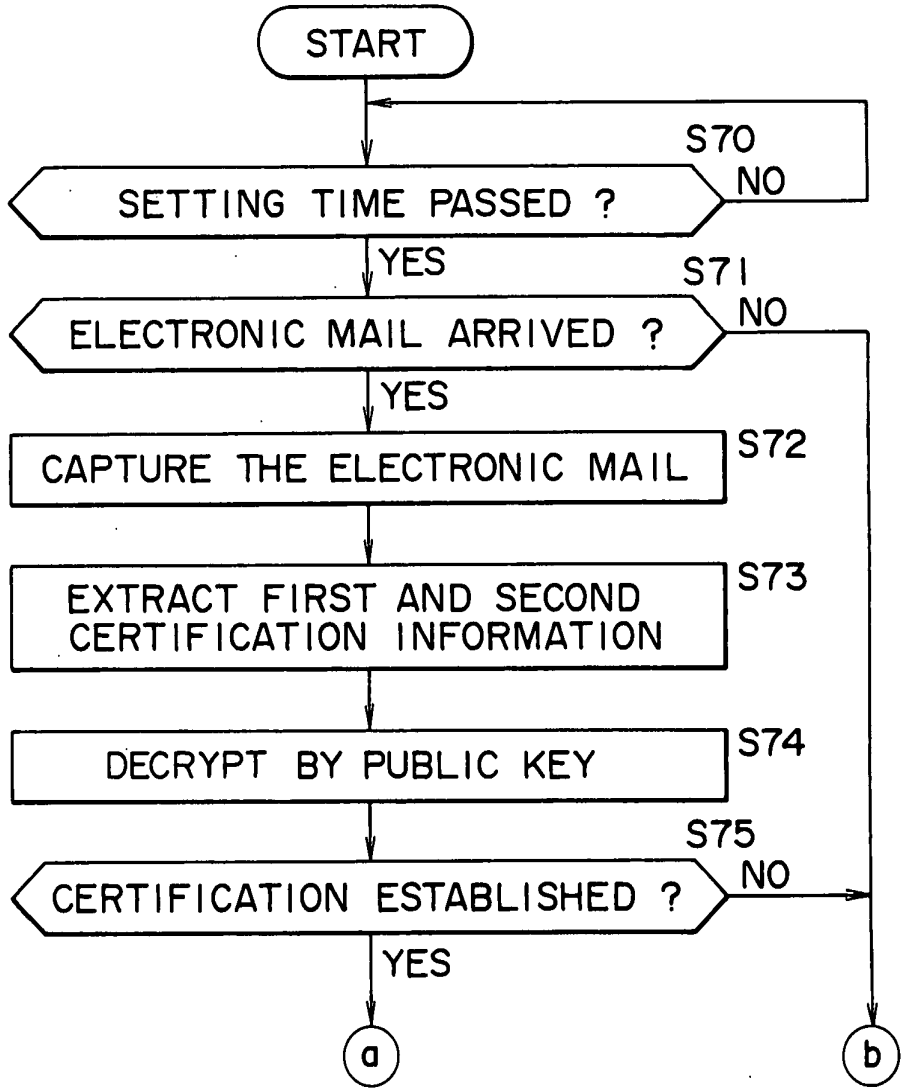


FIG. 13

FIG. 13A
FIG. 13B

FIG. 13B

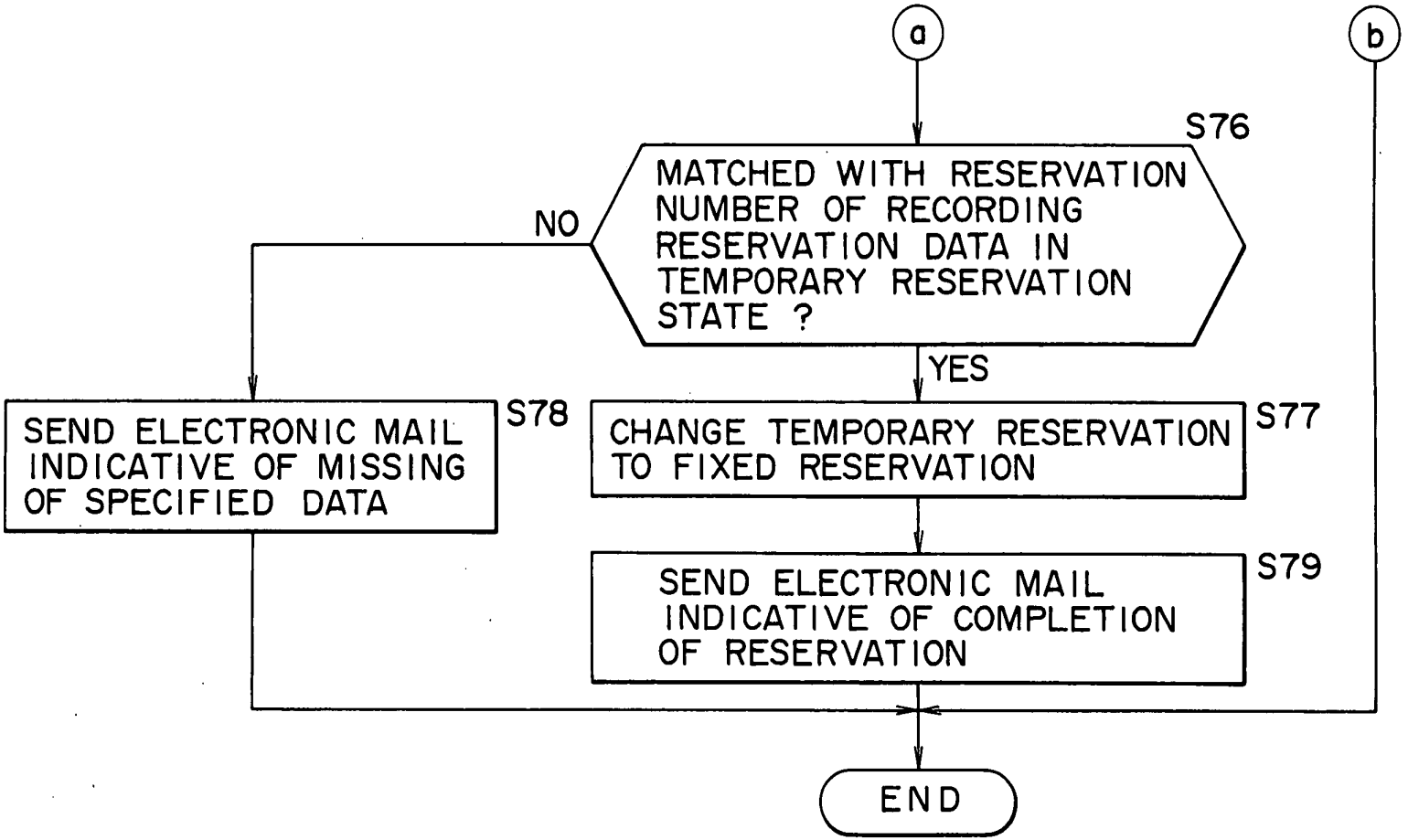

a
b
S76
MATCHED WITH RESERVATION NUMBER OF RECORDING RESERVATION DATA IN TEMPORARY RESERVATION STATE ?
NO
YES
S78
SEND ELECTRONIC MAIL INDICATIVE OF MISSING OF SPECIFIED DATA
S77
CHANGE TEMPORARY RESERVATION TO FIXED RESERVATION
S79
SEND ELECTRONIC MAIL INDICATIVE OF COMPLETION OF RESERVATION
END

FIG. 14

TO:foo@sm.sony.co.jp
From:home-server@ bar.sony.co.jp
Subject:VIDEO Reservation

RESERVATION NUMBER 1

VIDEO Reservation

DATE	FROM	TO	CH	SPEED
10	11:00	12:00	3	SP

RESERVATION MADE AS ABOVE

EncriptedDATA-First

ASASJKDKSDSIjjdsdjsuu^&%%!#@#@jasdauuihmkklsakdo
qwqeweipodasdiaidaiduckzxjzx&&*^%^!@E#JHBCJCHXZC

EncriptedDATA-Second

idoapsdauiuwe^&^ (&* SADDSADA&* DAS) D) {*ADLLKASLDAp
p{}[][=07897$^%^%BMNBNHHxxazxtbddaGHDSAuduygaddh
asdadaudyasuydasdyaduayadyaXTYUZXTqwdvvansbdvXUY

US005956089A

FIG. 15A

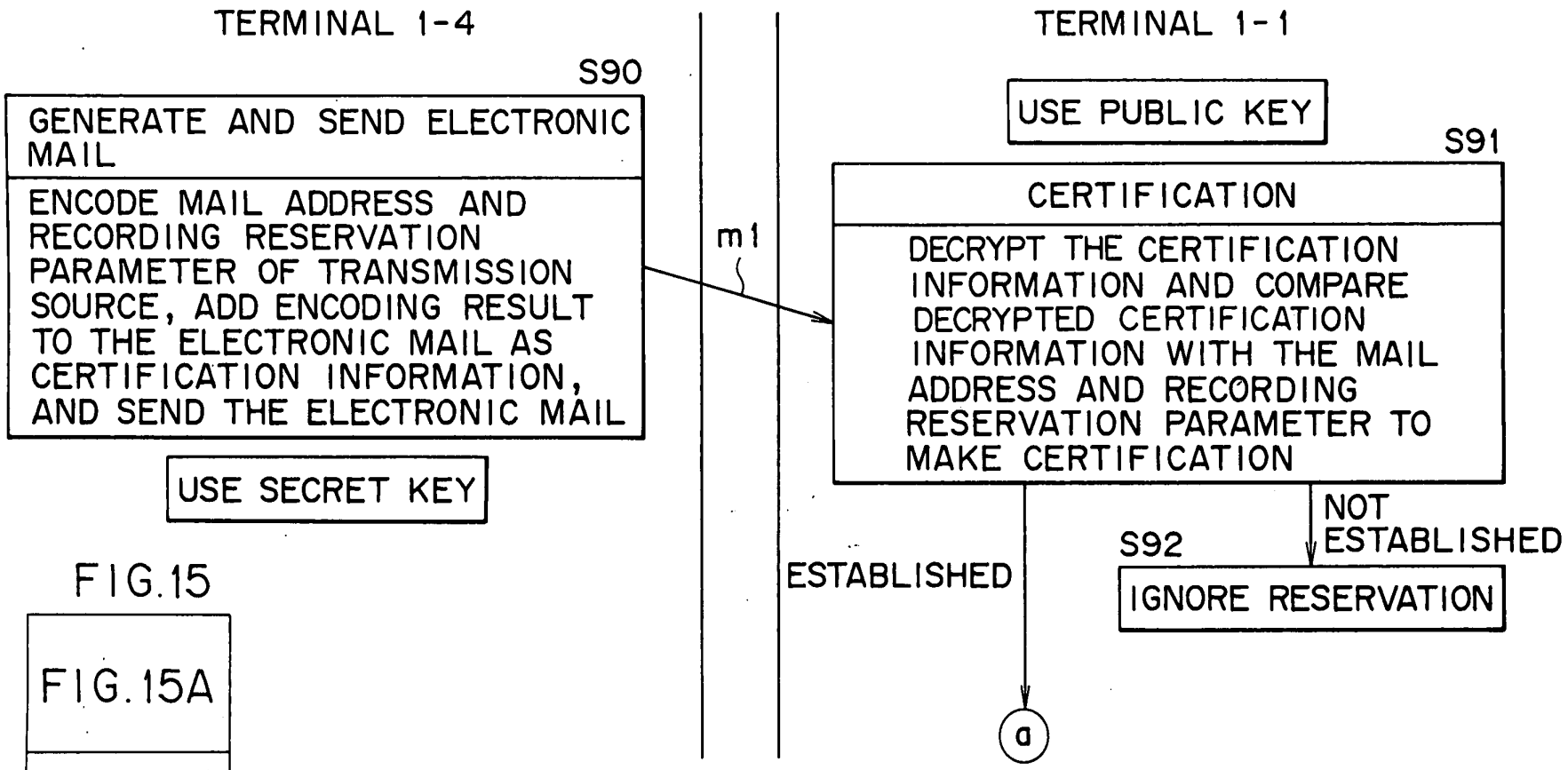


FIG.15

FIG.15A
FIG.15B
FIG.15C

86nTnO" 5926506O

FIG. 15B

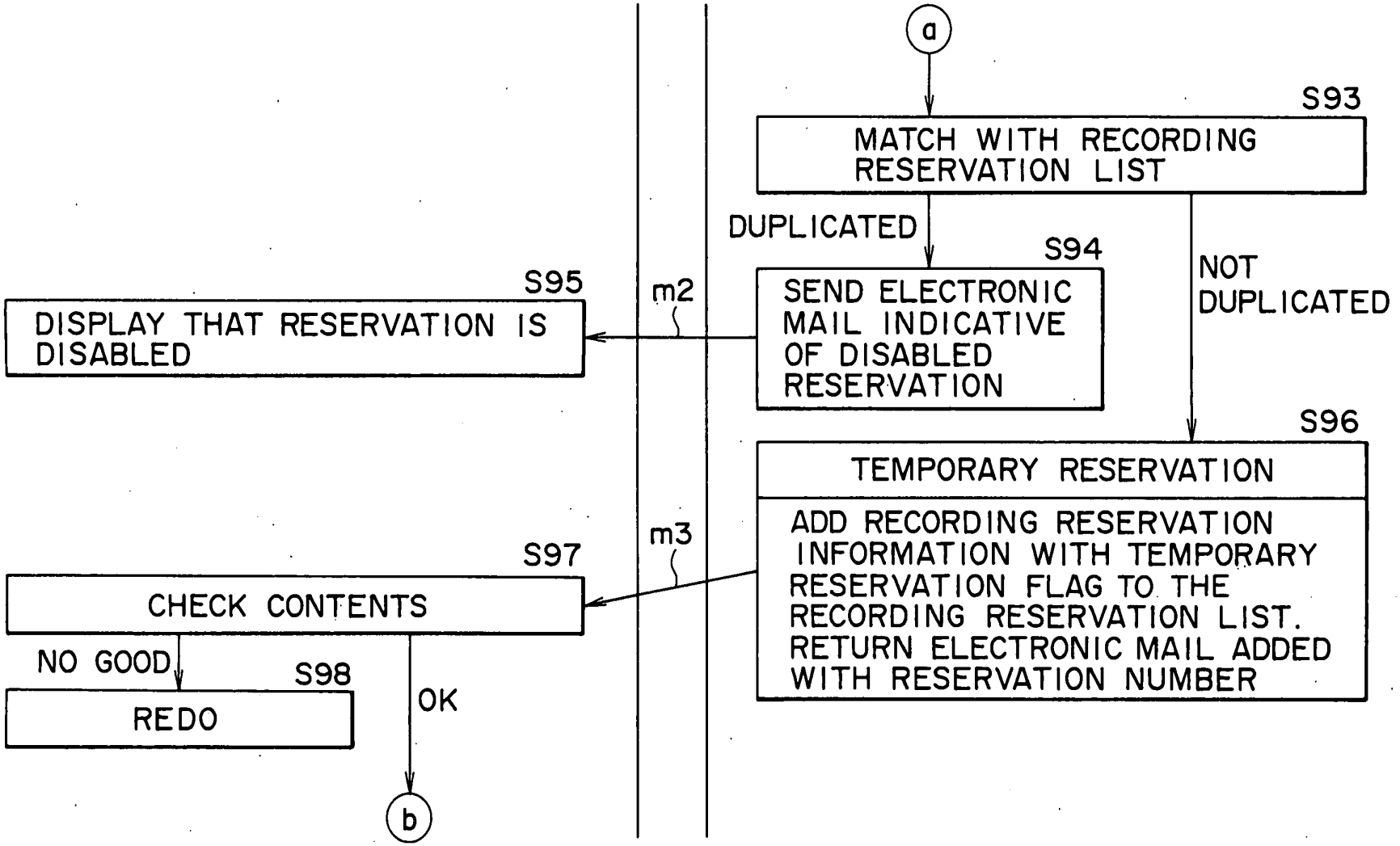


FIG. 15C

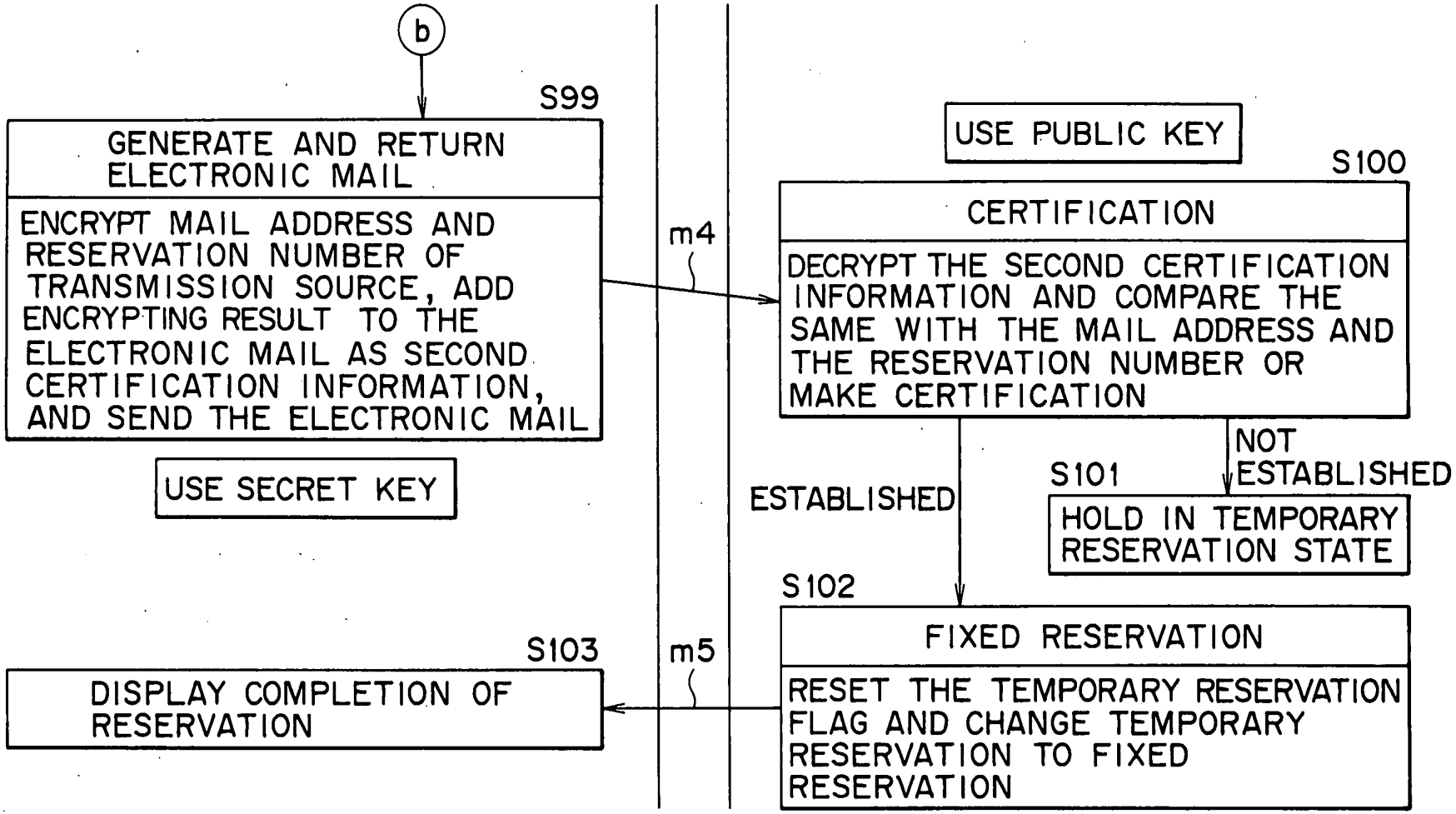
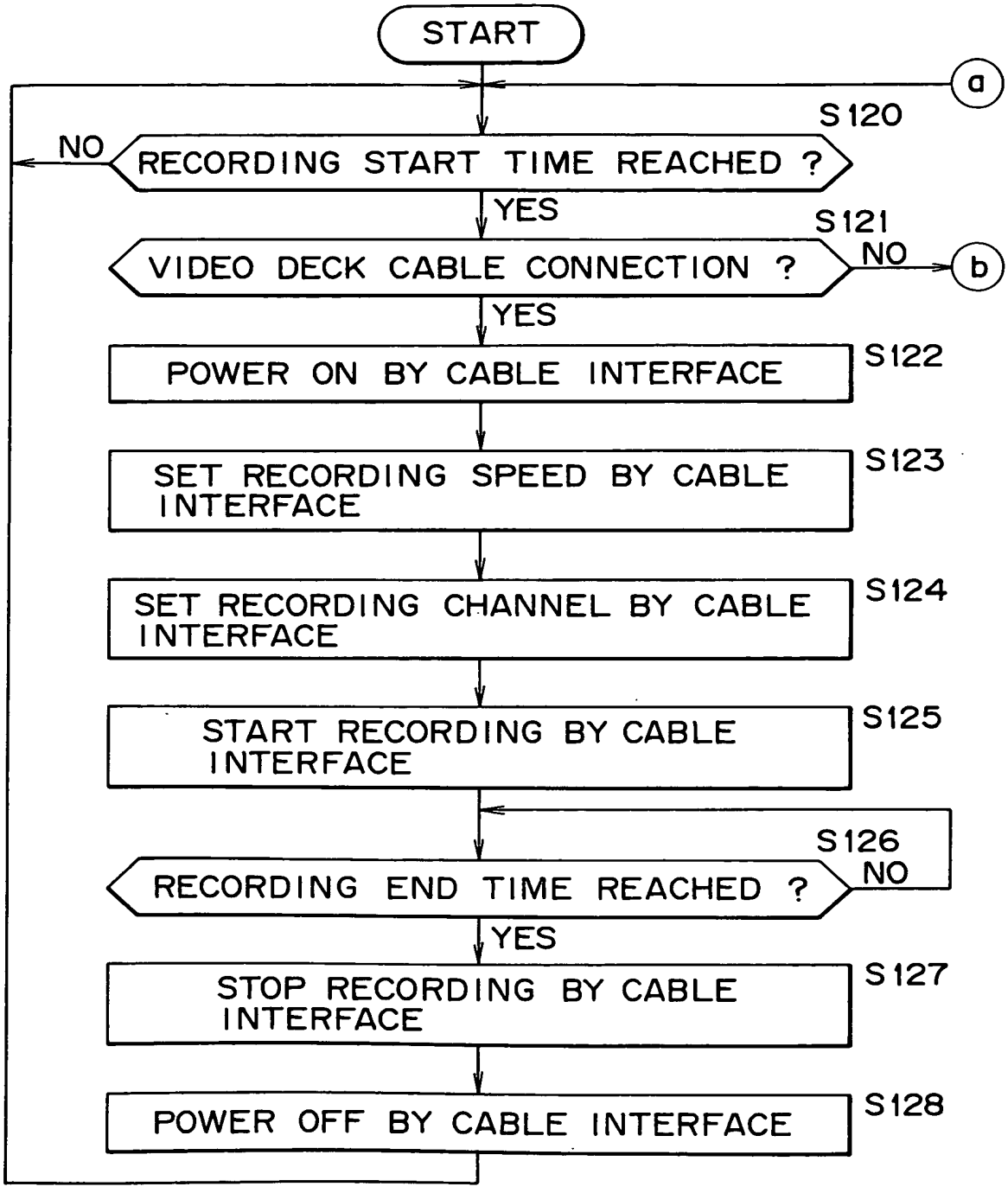

b
S99
GENERATE AND RETURN ELECTRONIC MAIL
ENCRYPT MAIL ADDRESS AND RESERVATION NUMBER OF TRANSMISSION SOURCE, ADD ENCRYPTING RESULT TO THE ELECTRONIC MAIL AS SECOND CERTIFICATION INFORMATION, AND SEND THE ELECTRONIC MAIL
USE SECRET KEY
m4
USE PUBLIC KEY
S100
CERTIFICATION
DECRYPT THE SECOND CERTIFICATION INFORMATION AND COMPARE THE SAME WITH THE MAIL ADDRESS AND THE RESERVATION NUMBER OR MAKE CERTIFICATION
NOT ESTABLISHED
S101
HOLD IN TEMPORARY RESERVATION STATE
ESTABLISHED
S102
FIXED RESERVATION
RESET THE TEMPORARY RESERVATION FLAG AND CHANGE TEMPORARY RESERVATION TO FIXED RESERVATION
m5
S103
DISPLAY COMPLETION OF RESERVATION

FIG. 16A



0054596-0054598

FIG. 16B

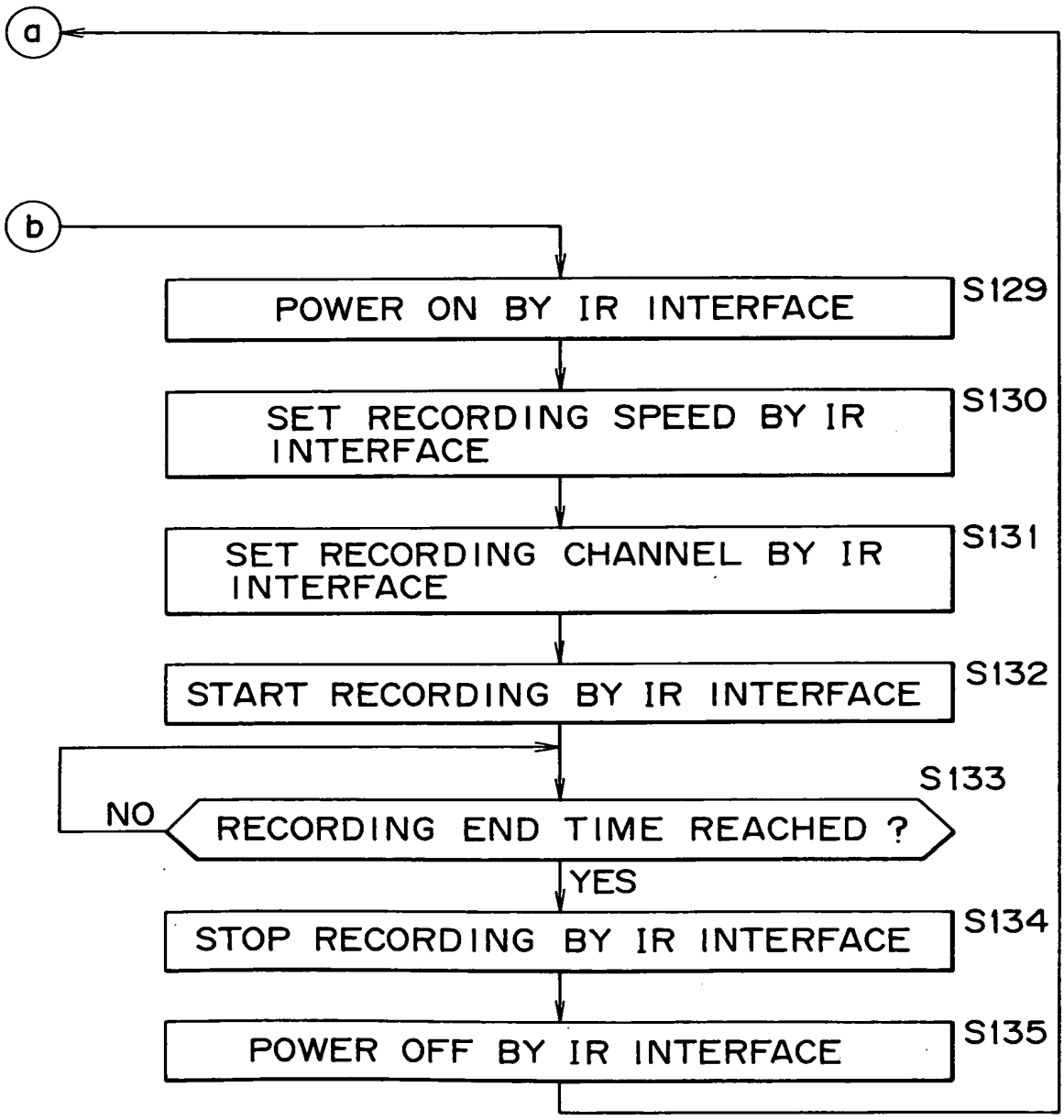


FIG. 16

FIG. 16A	FIG. 16B

0054565 05/05/05 0454565